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# Copper Controlled Materials

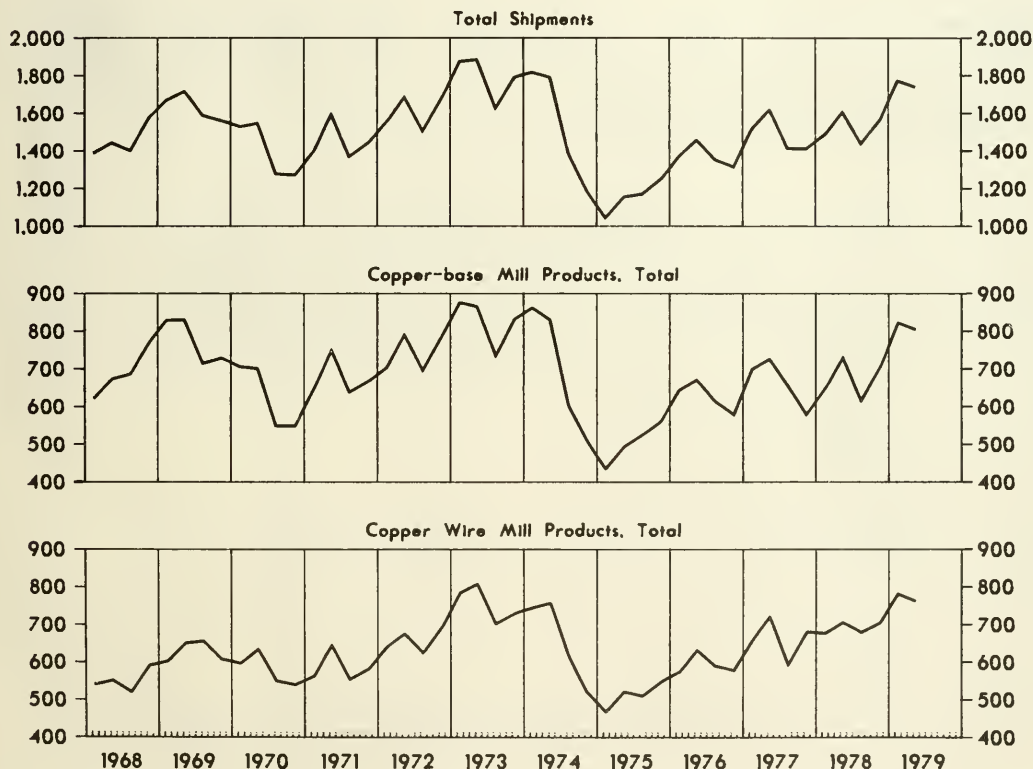
SECOND QUARTER 1979

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The statistics in this publication are based on a survey of companies whose reports were not received in time for manufacturers and represent total U.S. shipments of copper-base mill and foundry products. Estimates are included for on page 5.

THIS REPORT INCLUDES DATA COMPARING DOMESTIC OUTPUT, EXPORTS, AND IMPORTS

## SHIPMENTS OF COPPER CONTROLLED MATERIALS FROM BRASS MILLS, COPPER WIRE MILLS, FOUNDRIES AND POWDER MILLS 1968 TO 1979 (In Thousands of Pounds)



Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Doris Pope, (301) 763-2528.

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Table 1. SUMMARY OF SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS

(Millions of pounds - metal weight)								
Quarter and year	Total	Brass mill products		Copper wire mill products <sup>1</sup>			Brass and bronze foundry products <sup>3</sup>	Copper-base powder mill products
		Alloyed	Unalloyed	Bare wire <sup>2</sup>	Insulated communication wire	Other insulated wire		
1979								
Second quarter.....	1,743	511	295	67	229	468	156	17
First quarter.....	1,777	538	287	62	208	514	148	20
1978								
Fourth quarter.....	1,598	454	251	62	196	481	139	15
Third quarter.....	1,479	395	225	53	208	455	128	15
Second quarter.....	1,647	472	262	65	210	468	153	17
First quarter.....	1,527	429	224	58	192	463	145	16
1977								
Fourth quarter.....	1,416	378	204	62	186	435	137	14
Third quarter.....	1,417	428	229	55	156	388	146	15
Second quarter.....	1,625	472	256	60	222	442	155	18
First quarter.....	1,522	448	253	53	184	422	145	17
1976								
Fourth quarter.....	1,320	378	204	53	146	382	142	15
Third quarter.....	1,357	406	210	50	169	373	131	18
Second quarter.....	1,462	440	232	51	165	419	138	16
First quarter.....	1,373	419	227	45	144	386	136	16
1975								
Fourth quarter.....	1,253	386	177	48	131	370	129	12
Third quarter.....	1,174	336	191	37	134	341	120	15
Second quarter.....	1,161	323	173	40	140	344	132	9

Note: Detail may not add to totals due to independent rounding.

<sup>1</sup>Represents copper content weight, rather than metal weight.

<sup>2</sup>Represents uninsulated, bare tinned, and/or alloy coated wire.

<sup>3</sup>Source: Bureau of the Census Current Industrial Reports Series M33E, "Nonferrous Castings."

Table 2. SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS

Product	(Millions of pounds - metal weight)		
	1979		1978 second quarter
	Second quarter	First quarter	
Total shipments.....	1,743	1,777	1,647
Copper-base mill products.....	806	825	734
Copper-base alloy:			
Sheet and strip <sup>1</sup> .....	232	240	211
Rod, bar, and wire.....	237	254	222
Tube and pipe.....	42	44	39
Unalloyed copper:			
Sheet and strip.....	69	65	59
Rod, bar, and wire <sup>2</sup> .....	27	28	24
Tube and pipe.....	199	194	179
Copper wire mill products <sup>3</sup> .....	764	784	743
Bare wire <sup>4</sup> .....	67	62	65
Insulated communication wire.....	229	208	210
Other insulated wire.....	468	514	468
Brass and bronze foundry products <sup>5</sup> .....	156	148	153
Copper-base powder mill products.....	17	20	17
Copper-base alloy:			
Granular.....	4	4	4
Flake.....	1	1	1
Unalloyed copper:			
Granular.....	12	14	12
Flake.....	(2)	(2)	(2)

Note: Detail may not add to totals due to independent rounding. Monthly shipments data for brass mills and copper wire mills of primary companies are available in Current Industrial Reports Series M33K, "Inventories of Brass and Copper Wire Mill Shapes."

<sup>1</sup>Revised by 5 percent or more from previously published figures. (2) Less than 500,000 pounds.

<sup>2</sup>Military ammunition cups and discs are included on a net-weight basis, i.e., excluding the weight of the wobbling scrap generated in the cupping and discing.

<sup>3</sup>Does not include electrical wire.

<sup>4</sup>See footnote 1, table 1.

<sup>5</sup>See footnote 1, table 1.

Table 3. COPPER-BASE MILL PRODUCTS, SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION: 1979

(Quantity in millions of pounds; value in \$1,000)

Product <sup>1</sup>	Manufacturers' shipments	Exports of domestic merchandise <sup>2</sup>		Estimated producers' value <sup>3</sup>	Percent, exports to manufacturers' shipments (quantity)	Imports for consumption <sup>4</sup>		Calculated import duty	Apparent consumption <sup>5</sup> (quantity)	Percent, imports to apparent consumption (quantity)
		Quantity	Value at port			Quantity	Value			
SECOND QUARTER 1979										
Copper-base mill products, total <sup>6</sup> .....	890	34	52,628	49,953	4	81	88,484	1,670	937	
Brass mill products:										
Copper-base alloy:										
Sheet and strip.....	232	3	10,613	10,112	1	37	34,879	576	499	7
Rod, bar, and wire.....	237	4	5,499	5,239	2					
Tube and pipe.....	42	6	9,618	9,164	14					
Unalloyed copper:										
Sheet and strip.....	69	1	630	600	1	14	15,838	224	98	14
Rod, bar, and wire.....	27	11	10,271	9,786	41					
Tube and pipe.....	199	3	5,164	4,920	2					
Copper wire mill products:										
Bare wire.....	67	5	9,281	8,843	7	6	6,641	301	68	9
Copper-base powder mill products:										
Copper-base alloy:										
Granular.....	4	1	1,550	1,289	6	1	1,586	61	17	6
Flake.....	1									
Unalloyed copper:										
Granular.....	12	(Z)								
Flake.....	(Z)									
FIRST QUARTER 1979										
Copper-base mill products, total <sup>6</sup> .....	906	35	47,492	44,997	4	79	80,798	1,512	950	8
Brass mill products:										
Copper-base alloy:										
Sheet and strip.....	240	3	8,813	8,397	1	34	28,964	501	521	7
Rod, bar, and wire.....	254	4	5,036	4,798	2					
Tube and pipe.....	44	5	7,102	6,767	11					
Unalloyed copper:										
Sheet and strip.....	65	(Z)	514	490	(Z)	15	15,496	262	95	16
Rod, bar, and wire.....	28	13	11,090	10,567	46					
Tube and pipe.....	194	4	4,337	4,132	2					
Copper wire mill products:										
Bare wire.....	62	5	8,499	8,098	8	5	4,930	218	62	8
Copper-base powder mill products:										
Copper-base alloy:										
Granular.....	4	1	2,101	1,748	5	(Z)	1,041	48	19	(Z)
Flake.....	1									
Unalloyed copper:										
Granular.....	14	(Z)								
Flake.....	(Z)									

<sup>1</sup>Revised by 5 percent or more from previously published figure. (Z) Less than half the stated unit of measure.<sup>2</sup>Comparison of domestic manufacturers' shipments, export, and import codes for copper-base mill products appears in table 4.<sup>3</sup>Source: Bureau of the Census Report PT-410, U.S. Exports, Commodity by Country.<sup>4</sup>These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors (.9528 for industry group 335 relating to brass mill and copper wire mill products and .8318 for industry group 339 relating to copper-base powder mill products) are based on data for 1976 which are published in "Origin of Exports of Manufacturing Establishments," N76(S)-8, appendix A.<sup>5</sup>Source: Bureau of the Census Report IM 145-N, U.S. Imports for Consumption and General Imports.<sup>6</sup>Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.<sup>7</sup>This total does not include either insulated wire and cable products or brass and bronze foundry products.

Table 4. COMPARISON OF DOMESTIC MANUFACTURERS' SHIPMENTS, EXPORT, AND IMPORT CODES FOR COPPER-BASE MILL PRODUCTS: 1979

Product	Exports of domestic merchandise (Schedule B)	Imports for consumption (TSUSA)
Copper mill products:		
Copper-base alloy:		
Sheet, strip, and plate.....	612.3360, 612.3370, 612.3380	612.3400, 612.3500, 612.3600, 612.3800, 612.3920, 612.3940, 612.3960, 612.3980, 612.4000, 612.4100, 612.4300, 612.4410, 612.4430, 612.4510, 612.4520, 612.5200, 612.6100, 612.6200, 612.6300, 612.6410, 612.6420, 612.8000
Rod, bar, and wire <sup>1</sup> .....	612.4620	
Tube and pipe.....	613.0520, 613.0530	
Unalloyed copper:		
Sheet, strip, and plate.....	612.3320	612.3000, 612.3120, 612.3140, 612.3160, 612.3200, 612.5000, 612.6000, 612.8100, 612.8200
Rod, bar, and wire.....	612.4640	
Tube and pipe.....	613.0540, 613.0550	
Copper wire mill products:		
Bare wire.....	612.7420, 612.7440	612.7000, 612.7100, 612.7220, 612.7240, 612.7260, 612.7300
Copper base powder mill products:		
Copper-base alloy:		
Granular.....	612.5400	612.5500, 612.5600
Flake.....		
Unalloyed copper:		
Granular.....		
Flake.....		

<sup>1</sup>The import and export codes for this line do not include wire.

## DESCRIPTION OF SURVEY

*Scope of Survey*—This survey includes firms engaged in manufacturing copper-base mill products.

*Sampling Description*—The statistics in this publication were collected on Bureau of Domestic Business Development, **Copper Controlled Materials Form ITA-9008**. The mailing panel for these surveys includes all known producers of brass mill products and copper-base powder as well as, those manufacturers who produce 95 percent of wire mill products. The data for wire mill products are inflated to represent 100 percent coverage.

*Survey Error*—The quarterly figures include estimates for respondents whose reports were not received in time for tabulation, as well as those establishments not included in the mailing panel. Such missing figures are "imputed" from prior reports and/or estimates and are generally limited to a maximum of 10 percent for any one item. Individual items with imputation greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures. The probable range of difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

*Revision to Previous Period Data*—Statistics for previous quarters may be revised due to receipt of corrected data from respondents, including late reports for which imputations were previously made as described above and other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

*Seasonal Adjustment*—The data are not adjusted for seasonal variation.

## EXPLANATION OF TERMS

*Shipments*—Shipments by brass and bronze foundries include both shipments for sale (to the trade) and shipments for own use. Shipments for own use represent copper and copper-base alloy castings for use by the reporting company or an affiliate, subsidiary, or parent company, and also include castings produced and consumed at the sale location in the production of finished products.

Shipments by brass mills, copper wire mills and copper-base powder mills include all controlled materials orders shipped: by the respondent for his own account, by other copper-controlled materials producers for the respondent's account, or by the responding company under toll arrangements for the account of controlled materials consumers.

## COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; whereas, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to those mentioned above, there are also the following problems affecting the comparability of the three sets of data:

a. *Valuation*—There are different methods of valuation for the three types of data.

*Domestic Output*—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

*Exports*—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

*Imports*—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

b. *Duplication in Quantity and Value of Output*—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

c. *Low-Valued Export and Import Transactions*—Commodity information is not shown for individual imports valued under \$251. For exports, commodity information is not reported for shipments individually valued under \$251 effective October 1969 and for shipments valued under \$100 prior to October 1969. This is believed to have only negligible effect on the statistics for most commodities.

d. *Manufacturers' Shipments, Not Specified by Kind*—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

e. *Time Lag Between Output and Exports*—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

f. *"Direct" vs "Total" Commodity Export and Imports*—Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

g. *Used Commodities*—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

## RELATED REPORTS

An Annual Current Industrial Report is published in this series. The annual report summarizes quarterly figures and incorporates all revisions in the series for both the current and the previous year, thus providing a single reference copy to replace the quarterly publications.

The Bureau of the Census also publishes reports on related products as follows:

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M33E	Monthly	Nonferrous Castings
M33K	Monthly	Inventories of Brass and Copper Wire Mill Shapes
MA-33L	Annually	Insulated Wire and Cable
M3-1	Monthly	Manufacturers' Shipments, Inventories, and Orders

## Foreign Trade Reports

FT-410	Monthly	U.S. Exports—Schedule B—Commodity by Country
IM145-X	Monthly	U.S. Imports for Consumption and General Imports

## CONTACTS FOR DATA USERS

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Subject	Tabular Detail	Area to Which Data Apply	Frequency	Source (see Bibliography on 273-119)
<b>Employed Population</b> Male of work and residence workers for the COP	Rank in composition of Blacks in civilian force, 1970 Total number of Blacks other than Blacks in education Outside service area	21 SMSA's	Annual	185 Current Population Reports, The Social and Economic Status of Negroes in 1970 P. 2-3, 10-11, 16-17 Census Bureau
<b>Unemployed People</b>				
Lost occupation	Experienced unemployment 14-18 years lost and over Total Blacks, Sample size 14 Occupations not worked in 8 majorities	SMSA's, central cities and suburban regions and places outside of SMSA 100,000 or more <sup>1</sup>	Years ending in 0	87 Population Census of U.S. 1970, 1972 Industrial Status of Persons, places 100 and over
Lost year worked	Experienced workers lost in labor force for 18 months and over Year not worked in 3 living groups 14-18 to 100 to 250,000 population to 50 suburban areas	SMSA's of 250,000 or more	Years ending in 0	87 Population Census of U.S. 1970, 1972 Industrial Status of Persons, places 100 and over
	Population 18 years old and over not in labor force for 18 months and over Total Blacks, Sample size 14 By sex in 3 age groups Total not worked 1962 to 1970 Persons not in labor force 1 year not worked during 1 year not worked during 2 year not worked 1962 to 1970 Total newly worked with first year 1960 year not worked not re ported	SMSA's of 250,000 or more and all places 600 Blacks or more of Spanish language	Years ending in 0	88 Population Census of U.S. 1970, 1972 Industrial Status of Persons, places 100 and over
<b>Transits in Unemployment</b>	Unemployment rates Suburban areas (outside)	100 major labor areas	Monthly	796 Area Transits in Em ployment and Unem ployment, 1970-1974 1975-1976, 1977-1978 Yearly, quarterly, triannual and 5-year Administrations

<sup>1</sup> Excludes people who are unemployed more than 18 months  
<sup>2</sup> Excludes the 1970 population only in urban areas and in place of  
10,000 to 50,000

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